Application No. 10/586,098 Docket No.: S9025.0219

AMENDMENTS TO THE CLAIMS

- (Currently amended) A <u>hybrid energy curable solvent based</u> printing ink comprising:
 - (i) a solvent-soluble resin;
 - (ii) an energy curable monomer, oligomer, or mixture thereof;
 - (iii) a vehicle comprising solvent; and
 - (iv) pigment.
- (Previously presented) The printing ink of claim 1, wherein the energy curable monomer, oligomer, or mixture thereof, is an ethylenically unsaturated monomer, oligomer, or mixture thereof.
- (Previously presented) The printing ink of claim 1, wherein the energy curable monomer, oligomer, or mixture thereof, is in an amount of about 1% to 50% by weight of the printing ink.
- (Previously presented) The printing ink of claim 1, wherein the solventsoluble resin is in a range between about 0.1% to about 40% by weight of the printing ink.
- (Previously presented) The printing ink of claim 4, wherein the solventsoluble resin comprises nitrocellulose, acrylate, methacrylate, polyester, polyamide, copolymer of styrene and maleic anhydride, polyurethane and epoxy.
- (Previously presented) The printing ink of claim 1, wherein the vehicle comprises water, methanol, ethanol, n-propanol, iso-propanol, n-butanol, sec-butanol, tert-butanol, iso-butanol, n-pentanol, or ethyl acetate.

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(Previously presented) The printing ink of claim 1 further comprising a photoinitiator.

- (Previously presented) The printing ink of claim 7, wherein the photoinitiator is in an amount between about 0.1% and about 20% by weight of the printing ink.
- 9. (Previously presented) The printing ink of claim 7, wherein the photoinitiator is selected from the group consisting of benzophenone, acetophenone, fluorenone, xanthone, thioxanthone, carbazole, benzoin, the allyl benzoin ethers, 2- or 3- or 4- bromoacetophenone, 3- or 4- allylacetophenone, m- or p-diacetylbenzene, 2- or 3- or 4- methoxybenzophenone, 3,3'- or 3,4'- or 4,4'-dimethoxybenzophenone, 4-chloro-4'-benzylbenzophenone, 2- or 3-chloroxanthone, 3-dichloroxanthone, 2- or 3-chlorothioxanthone, 3-chloro-8-nonylxanthone, 3-methoxyanthone, 3-iodixanthone, 2- acetyl-4-methylphenyl acetate, alkyl and aryl ethers of benzoin, phenylglyoxal alkyl acetals, 2,2'-dimethoxy-2-phenyl-acetophenone, 2,2-diethoxyacetophenone, 2,2-diisopropoxyacetophenone, 1,3-diphenyl acetone, naphthalene sulfonyl chloride, and mixtures thereof.
 - 10. (Previously presented) A method of printing comprising:
 - (i) printing a substrate with the printing ink of claim 1;
 - (ii) drying the printed ink; and
 - (iii) exposing the printed ink to an actinic radiation.
- 11. (Previously presented) The method of claim 10, wherein steps (ii) and (iii) are performed sequentially.
- 12. (Previously presented) The method of claim 10, wherein steps (ii) and (iii) are performed simultaneously.

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13. (Previously presented) The method of claim 10, wherein the actinic radiation is an electron beam.

- 14. (Previously presented) The method of claim 10, wherein the printing ink further comprising a photoinitiator.
- 15. (Previously presented) The method of claim 14, wherein the actinic radiation is a ultraviolet light.
- 16. (Previously presented) The method of claim 14, wherein the photoinitiator is selected from the group consisting of benzophenone, acetophenone, fluorenone, xanthone, thioxanthone, carbazole, benzoin, the allyl benzoin ethers, 2- or 3- or 4- bromoacetophenone, 3- or 4- allylacetophenone, m- or p-diacetylbenzene, 2- or 3- or 4- methoxybenzophenone, 3,3'- or 3,4'- or 4,4'-dimethoxybenzophenone, 4-chloro-4'-benzylbenzophenone, 2- or 3-chloroxanthone, 3,9-dichloroxanthone, 2- or 3-chlorothioxanthone, 3-chloro-8-nonylxanthone, 3-methoxyanthone, 3-iodixanthone, 2-acetyl-4-methylphenyl acetate, alkyl and aryl ethers of benzoin, phenylglyoxal alkyl acetals, 2,2'-dimethoxy-2-phenyl-acetophenone, 2,2-diethoxyacetophenone, 2,2-diisopropoxyacetophenone, 1,3-diphenyl acetone, naphthalene sulfonyl chloride, and mixtures thereof.
- 17. (Previously presented) The method of claim 10, wherein the energy curable monomer, oligomer, or mixture thereof, is an ethylenically unsaturated monomer, oligomer, or mixture thereof.
- 18. (Previously presented) The method of claim 10, wherein the energy curable monomer, oligomer, or mixture thereof, is in an amount of about 1 to 50% by weight of the printing ink.

19. (Previously presented) The method of claim 10, wherein the solvent-soluble resin is in an amount of about 0.1% and about 40% by weight of the total ink.

20. (Previously presented) The method of claim 10, wherein the vehicle comprises water, methanol, ethanol, n-propanol, iso-propanol, n-butanol, sec-butanol, tert-butanol, iso-butanol, n-pentanol, or ethyl acetate.